

TO: Suborbital Science Program
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Flight Report

Aircraft :	Kenn Borek Air DC-3T Basler
Operating Site(s) From / To :	NZIR/NZIR
Flight Date :	December 2, 2009 (NZDT)
Flight Number / Data Flight # :	F14 / 11
Time out:	0142 UTC
Time in:	0834 UTC
Flight Time :	6.8 hrs
Flt Request # / PI:	NASA 20090602-084128 (Blankenship)
Purpose of Flight :	Data [X] Ferry [] Functional Check [] Other []
Sensor Payload :	University of Texas at Austin HiCARS ice penetrating radar; UT Reigl LD-90 laser distance meter; UT Geometrics 823-A magnetometer; USAF Sigma Space photon counting lidar, NGA BGM-3 gravity meter; JPL WISE ice penetrating radar
Comments :	The aircraft flew a radial flight to the west of McMurdo, via Ferrar Glacier, from McMurdo's sea ice runway toward Adventure Subglacial Trench, a site of coupled lake activity in the late nineties. An old laser altimetry line flown in 1998 was reflighted with the lidar. The radar, laser altimeter, lidar prototype and gravity and magnetic fields instruments all performed excellently. WISE and HiCARS were operated successfully together with little interference. At the end of the flight buried ice in Beacon Valley was sounded at both radar frequencies. During the flight out, the ICECAP aircraft was filmed by the BBC as part of their upcoming documentary series, "Frozen Planet".

SUBMITTED BY: Duncan Young 10 December 2009